THE FOLLOWING IS THE ENGLISH TRANSLATION OF THE ANNEXES TO THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT UNDER ARTICLE 34: Amended Sheets (pages 12, 13)

10

25

## What is claimed is:

- 1. A process for preparing dinitrotoluene, in countercurrent, comprising the steps of
- 5 a) reacting toluene with nitric acid in the presence of sulfuric acid to give mononitrotoluene,
  - b) separating the reaction product from step a) into an organic phase comprising mononitrotoluene and an aqueous phase comprising sulfuric acid.
  - c) reacting the organic phase comprising mononitrotoluene with nitric acid in the presence of sulfuric acid to give dinitrotoluene,
- d) separating the reaction product from step c) into an organic phase comprising dinitrotoluene and an aqueous phase comprising sulfuric acid,

wherein the reaction product from step a) has a content of toluene of 0.5-8% by weight, based on the organic phase, and a content of nitric acid of from 0.1 to 1.2% by weight, based on the aqueous phase, and the phase separation in step b) is carried out by means of dynamic separators.

- 2. The process according to claim 1, wherein the reaction product from step a) has a content of toluene of from 3.5 to 5% by weight based on the weight of the organic phase from step a).
- 3. The process according to claim 1, wherein the organic phase comprising mononitrotoluene from step b) is transferred to step c) without further workup.
- 30 4. The process according to claim 1, wherein the aqueous phases comprising sulfuric acid from steps b) and d), if appropriate after a workup and concentration, are reused in step a) and c).
- 5. The process according to claim 1, wherein the reaction apparatus used for steps a) and c) are stirred tanks and/or flow reactors.
  - 6. The process according claim 1, wherein step a) is carried out in only one reaction apparatus.
- 7. The process according to claim 1, wherein step c) is carried out in a maximum of two reaction apparatus connected in series.

10

20

- 8. The process according to claim 1, wherein step a) is carried out at a temperature in the range between 35 and 70°C.
- 5 9. The process according to claim 1, wherein step c) is carried out at a temperature in the range between 60 and 85°C.
  - 10. The process according to claim 1, wherein the molar ratio of nitric acid to toluene in stage a) is in the range between 0.95 and 1.12.
  - 11. The process according to claim 1, wherein the molar ratio of nitric acid to mononitrotoluene in stage c) is in the range between 1.03 and 1.10.
- 12. The process according to claim 1, wherein the aqueous phase comprising sulfuric acid from stage b) is concentrated to give sulfuric acid having a concentration of from 85 to 96% and recycled in stage a).
  - 13. The process according to claim 1, wherein the aqueous phase comprising sulfuric acid from stage d) is admixed with nitric acid and recycled into stage a).
  - 14. The process according to claim 1, wherein the nitric acid supplied in stage a) and stage c) has a concentration of from 58 to 100%.